

ELECTRICALLY CONDUCTIVE SELF-LUBRICATING BEARING SYSTEM AND A METHOD FOR IMPLEMENTING SAME

Abstract

A method and system for an electrically conductive self-lubricating bearing includes a mating structure having a mating surface; an electrically conductive substrate, wherein the substrate includes a substrate surface having a plurality of valleys defined by at least one electrically conductive rib extending therefrom; and a lubricating material, wherein the lubricating material is disposed within the plurality of valleys, an exposed surface of the lubricating material substantially flush with an end defining a length of the rib so as to be communicated with the substrate surface and the mating surface, wherein the rib is in electrical communication with the mating surface.